

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION MIAMI-DADE COUNTY PRODUCT CONTROL SECTION 11805 SW 26 Street, Room 208 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

# **NOTICE OF ACCEPTANCE (NOA)**

N.R. Architectural Products, Inc. 4348 Westroads Drive West Palm Beach, FL 33407

#### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "NRAP 2500-FX" Aluminum Fixed Window - L.M.I.

**APPROVAL DOCUMENT:** Drawing No. **AD12-05**, titled "NRAP Series 2500 Fixed Window (L.M.I.)", sheets 1 through 7 of 7, dated 02/20/12, with revision #1 dated 02/26/12, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E., bearing the Miami–Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami–Dade County Product Control Section.

## MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA# 09-0519.01 and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Manuel Perez, P.E.

(MIAMI-DADE COUNTY) APPROVED 7/1/2/13

NOA No. 12-0619.01 Expiration Date: August 19, 2014 Approval Date: July 11, 2013

Page 1

## N.R. Architectural Products, Inc.

### NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

## A. DRAWINGS

- 1. Manufacturer's die drawings and sections.
- 2. Drawing No AD12-05, titled "NRAP Series 2500 Fixed Window (L.M.I.)", sheets 1 through 7 of 7, dated 02/20/12, with revision#1 dated 02/26/12, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P. E.

### B. TESTS

- 1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202–94
  - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
  - 3) Water Resistance Test, per FBC, TAS 202-94
  - 4) Large Missile Impact Test per FBC, TAS 201-94
  - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
  - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

along with marked—up drawings and installation diagram of casement out— & fixed window system, prepared by Hurricane Testing Laboratory, Inc., Test Report No. HTL 0242–0207–09, dated 04/23/09, signed and sealed by Vinu J. Abraham, P.E. (Submitted under previous NOA# 09-0519.01)

## C. CALCULATIONS

- Anchor calculations and structural analysis, complying with FBC-2010, dated 06/04/12, prepared by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.
- 2. Glazing complies with ASTM E1300-04

## D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

### E. MATERIAL CERTIFICATIONS

- 1. Notice of Acceptance No. 11-0624.02 issued to E.I. DuPont DeNemours & Co., Inc. for their "DuPont SentryGlas® Interlayer" dated 08/25/11, expiring on 01/14/17.
- 2. TREMCO Part No. TR-PS1126E EPDM exterior glazing gasket complying with ASTM C864 Option II exceptions, ASTM D412 1600 PSI, D395B 22 HRS 158°F.

Manuel Perez, P.E. Product Control Examiner NOA No. 12-0619.01

Expiration Date: August 19, 2014
Approval Date: July 11, 2013

## N.R. Architectural Products, Inc.

### NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

### F. STATEMENTS

- 1. Statement letter of conformance, complying with FBC-2010, dated June 04, 2012, issued by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.
- 2. Statement letter of no financial interest, dated June 04, 2012, issued by MCY Engineering, Inc., signed and sealed by Yiping Wang, P.E.
- 3. Laboratory compliance letter for Test Report No. HTL 0242-0207-09, issued by Hurricane Test Laboratory, Inc., dated April 07, 2009, signed and sealed by Vinu J. Abraham, P.E.
  - (Submitted under previous NOA# 09-0519.01)
- 4. Notification of Successor Engineer for manufacturer's NOA document per Section 61G15-27.001 of the Florida Administrative Code, notifying original engineer that the successor engineer is assuming full professional and legal responsibility for all engineering documents pertaining to this NOA, dated April 24, 2012, signed and sealed by Yiping Wang, P.E.

### G. OTHER

1. Notice of Acceptance No. **09-0519.01**, issued to NR Architectural Products for their Series "NRAP 2500-FX" Aluminum Fixed Window – L.M.I., approved on 08/19/09 and expiring on 08/19/14.

Manuel Perez, P.E.
Product Control Examiner
NOA No. 12-0619.01
Expiration Date: August 19, 2014

Approval Date: July 11, 2013

# GENERAL NOTES: FLORIDA BUILDING CODE

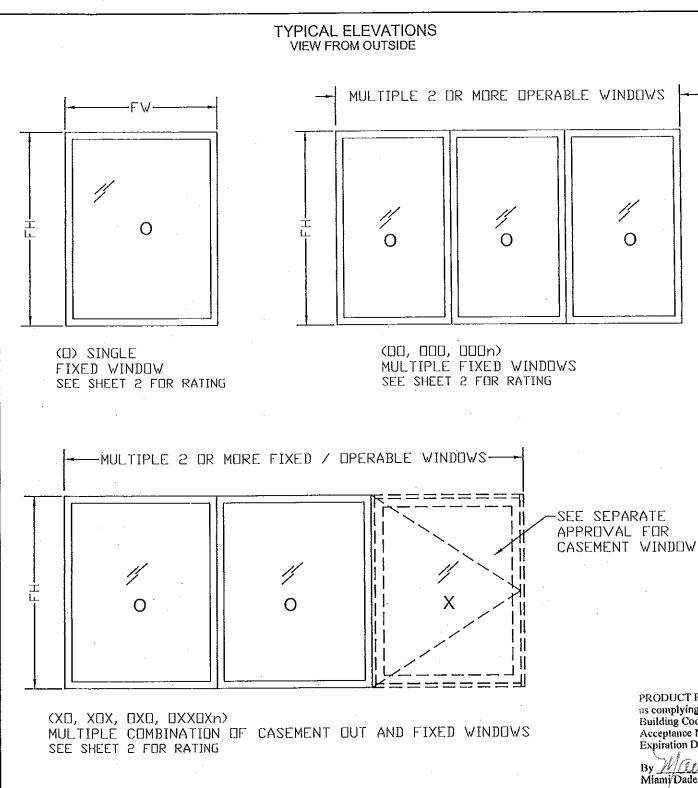
- 1- CODE: THIS PRODUCT HAS BEEN TESTED AND DESIGNED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 2010 INCLUDING THE HIGH VELOCITY HURRICANE ZONE (HVHZ).
- 2- DEFINITION: THIS PRODUCT IS A FIXED TYPE WINDOW DESIGNED, CONSTRUCTED AND TESTED TO PROVIDE PROTECTION FROM HURRICANE FORCE WINDS AND WIND BORNE DEBRIS (LARGE MISSILE) WITHIN THE ALLOWABLE DESIGNED PRESSURES AND LIMITATIONS STATED IN THIS APPROVAL, INSTALLATION OF HURRICANE PROTECTION DEVICES IS NOT REQUIRED.

#### 3- POSTING:

\*NR ARCHITECTURAL PRODUCTS, INC. WEST PALM BEACH - FLORIDA MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED"

- 4- DESIGN LOADS: THE DESIGNED LOADS MUST BE CALCULATED BY A PROFESSIONAL ARCHITECT OR ENGINEER FOR EACH SPECIFIC PROJECT. THE CALCULATED DESIGNED PRESSURE MUST NOT EXCEED THE ALLOWABLE WINDOW PRESSURE.
- 5- MATERIAL: GLAZING TO BE IMPACT LAMINATED GLASS AS SPECIFIED ON THIS APPROVAL.
- 6- FASTENERS: ASSEMBLY SCREVS AND ANCHORS SHALL BE AS SPECIFIED IN THE CURRENT SET OF DRAWINGS, INSTALLATION AND LOADS AS PER THIS APPROVAL, ANCHOR QUANTITY & SPACING MUST NOT EXCEED THE MAXIMUM LIMITS SPECIFIED BY THIS APPROVAL.
- 7- USE: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, ARCHITECT OR ENGINEER OF RECORD TO VERIFY THE FOLLOWING 7.1- THE STABILITY OF THE STRUCTURE WHERE THE PRODUCT IS TO BE ATTACHED INSURING PROPER ANCHORAGE.
- 7.2- THE SITE SPECIFIC PROJECT CRITERIA, SUCH AS BUT NOT LIMITED TO, LOCAL CODE REQUIREMENTS, DESIGNED PRESSURES ETC.
- 7.3- THAT THIS APPROVAL IS ADEQUATE TO THE SPECIFIC PROJECT.
- 8- 33 1/3% INCREASE IN ALLOWABLE LOADS HAVE NOT BEEN USED IN THE DESIGN OF THE ANCHORS FOR THIS PRODUCT APPROVAL, HOWEVER, WOOD SCREWS WITH 1.6 INCREASE FOR WIND LOAD DURATION HAVE BEEN USED,
- 9- DISSIMILAR MATERIALS: MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL, THAT COME IN CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2010 FLORIDA BUILDING CODE.

FOR ALLOWABLE SIZES AND PRESSURES REFER TO: SHEET 2



## TABLE OF CONTENTS:

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2 of 7	TABLE 1 & 2 DESIGN RATING FOR SINGLE AND MULTIPLES UNITS
3 of 7	TYPICAL DETAILS
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5 of 7	ANCHORAGE LAY-OUT WITH SHEAR CLIP
6 of 7	WINDOW COMPONENTS AND BILL OF MATERIAL
7 of 7	GLAZING DETAILS & CORNER ASSEMBLY

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 12-0619.0 Expiration Date Aug. 19, 2014

Miami/Dade Product Control

YIPING WANG, P.E. FLORIDA REGISTRATION PE #55983 C.A.N. 28677

DATE 02-20-12 CALE AS NOTED DRAWN S.L PROJECT 12-028

ENGINEERING, ZING CONSULTANT

STE

124 AVE.

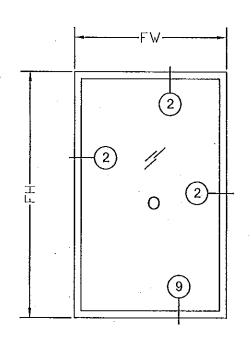
DRAWING NO. AD12-05

SHEET 1 of 7

TABLE 1 **DESIGNED RATING FOR** SINGLE FIXED UNITS (PSF)

MAX.	FRAME	PRESSURES	
WIDTH	HEIGHT	EXT INT	
(FW)	(FH)	(+) (-)	
24	96	120	
32	72	120	
38,75	60	120	
44	52	120	
_48	48	120	
52	. 44	120	
60	38.75	120	
72	32	120	
96	24	120	

- \* FRAME WIDTH AND HEIGHT IN INCHES
- \* PRESSURES IN PSF
- \* WINDOW AREA MUST NOT
- EXCEED 16.15 SQFT DLD=FW-4.375 DR FH-4.375

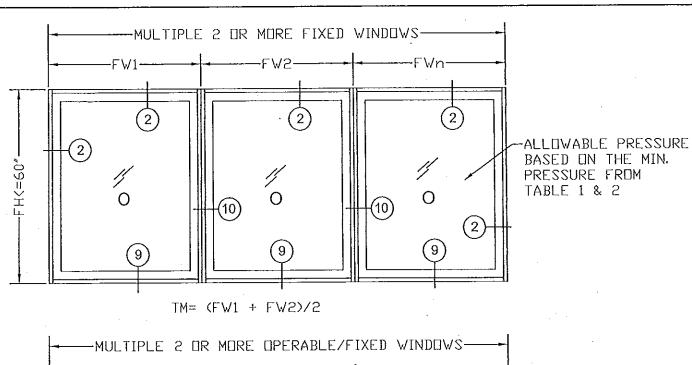


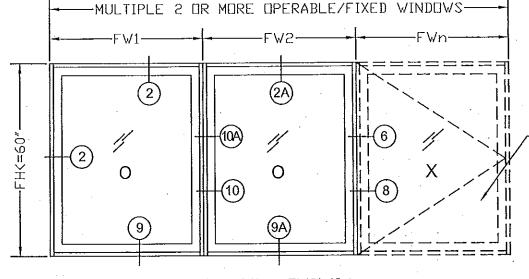
(D) SINGLE FIXED WINDOW

TABLE 2 DESIGNED RATING FOR MULLIONS ON MULTIPLE FIXED OR/AND FIXED/CASEMENT UNITS (PSF)

TM	FH	MULL TYPE 6/ 8/ 10/ 10A EXT(+) INT(-)
24	60	120
32	60	120
38,75	60	120
44	52	120
48	48	120
54	43	120
60	. 39	120
66	35	120
72	32	120

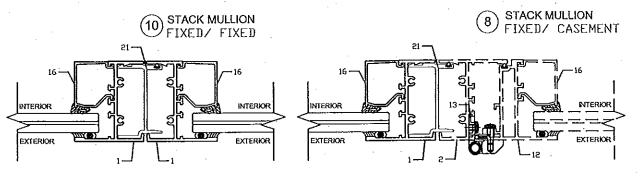
TM- MAXIMUM TRIBUTARY MODULE WIDTH IN INCHES FH- MAXIMUM FINISHED HEIGHT IN INCHES PRESSURES IN PSF 





-ALLOWABLE PRESSURE BASED ON THE MIN. PRESSURE FROM TABLE 1, 2 AND CASEMENT WINDOW APPROVAL.

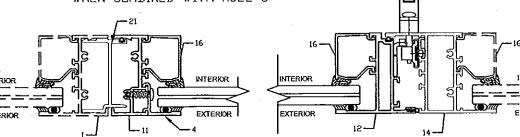
TM = (FW1 + FW2)/2



PRODUCT REVISED as complying with the Florida Building Code Acceptance No 12.0619. Expiration Date 2 9

Miami Dade Product Contro

STACK MULLION CAS-FIX MULLION (6) CASEMENT/ FIXED CASEMENT/ FIXED WHEN COMBINED WITH MULL 6



YIPING WANG, P.E. FLORIDA REGISTRATION PE #55983 C.A.N. 28677

> DRAWN PROJECT 12-026

SCALE

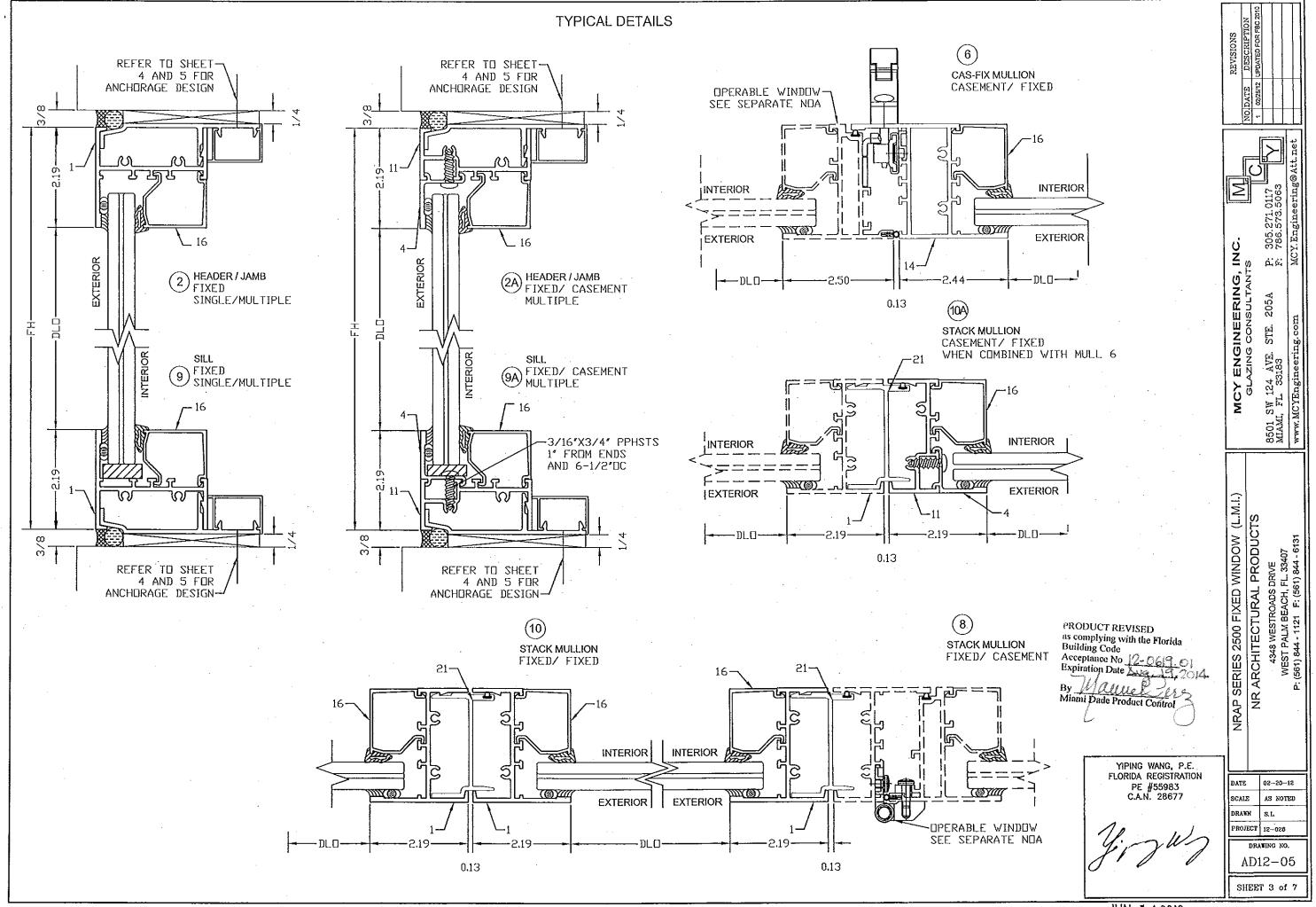
AD12-05 SHEET 2 of 7

02-20-12

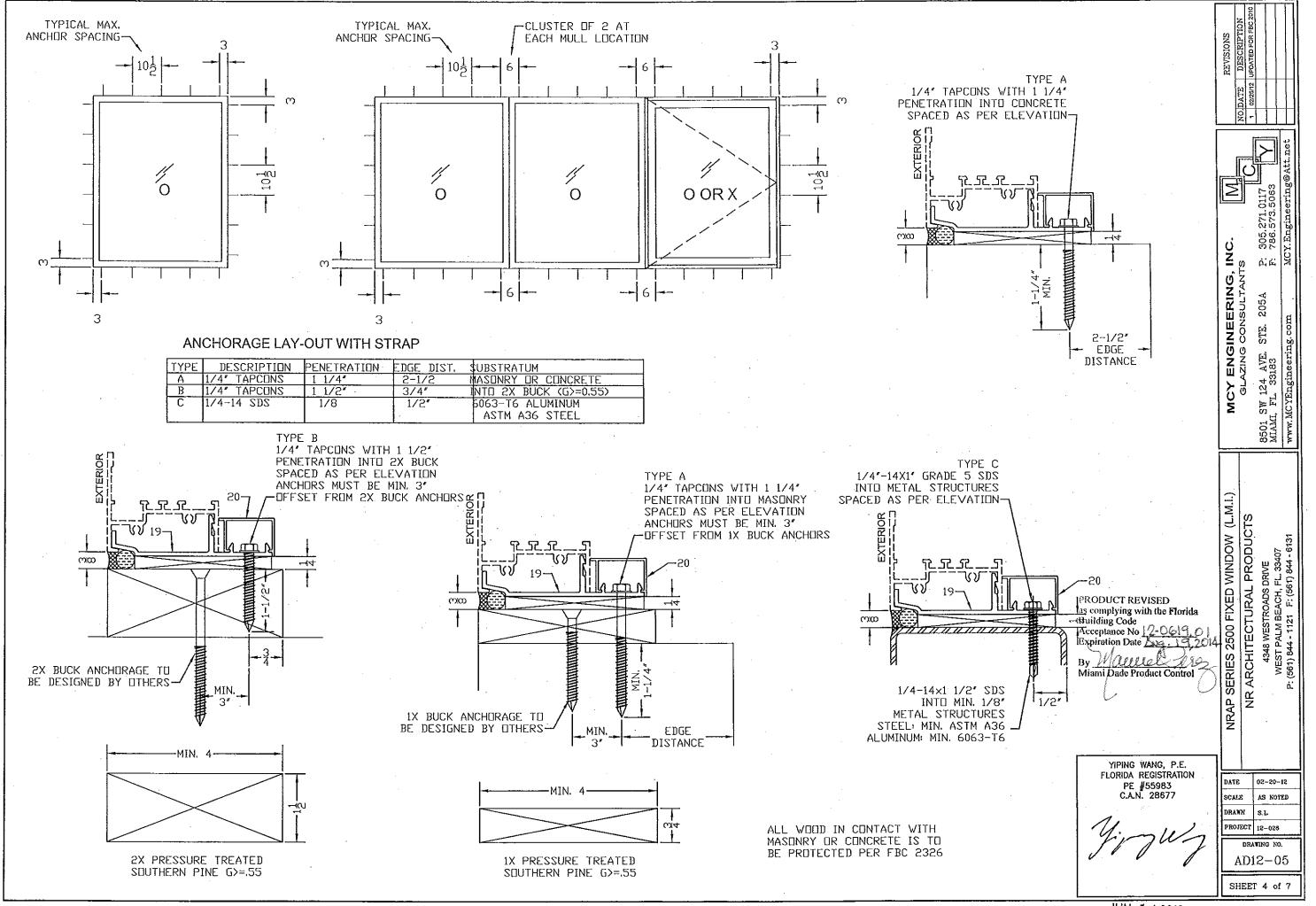
AS NOTED

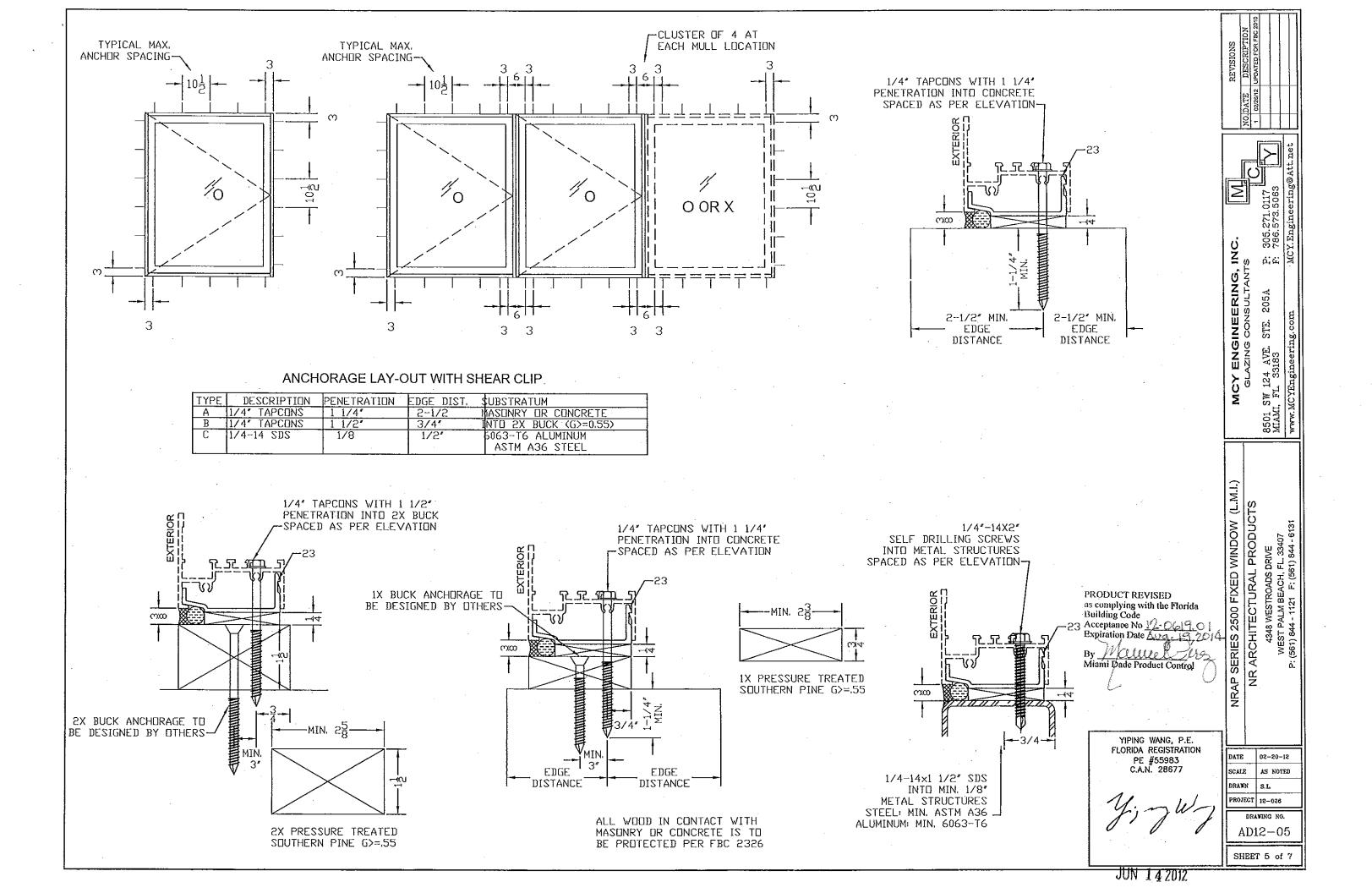
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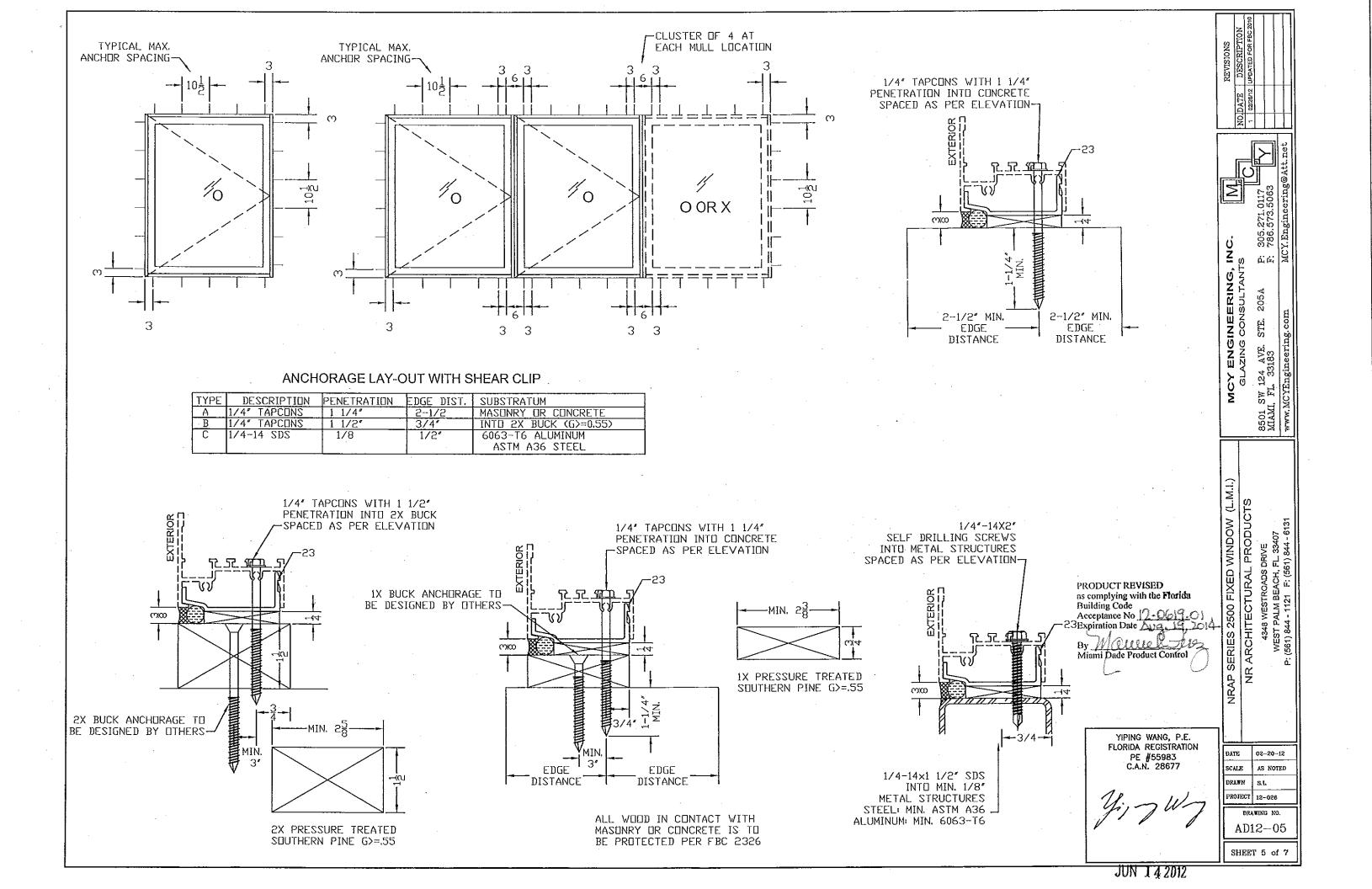
MCY ENGINEERING, GLAZING CONSULTANT 8501 SW 124 AVE. STE. MIAMI, FL. 33183 AP SERIES 2500 FIXED WINDOW (L.) NR ARCHITECTURAL PRODUCTS



JUN 142012



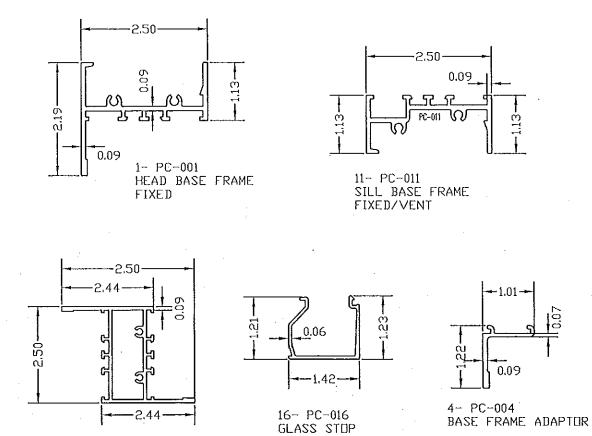


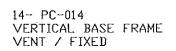


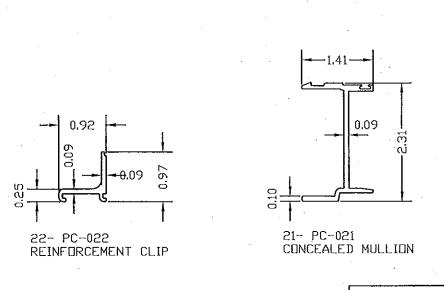
# WINDOW COMPONENTS

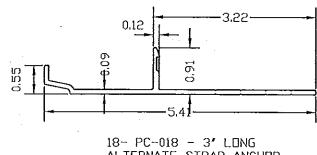
## **COMPONENTS LIST**

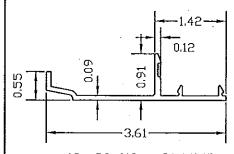
ITEM	PART#	DESCRIPTION	MATERIAL	SUPPLIER
1	PC-001	HEAD BASE FRAME (FIXED)	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
4	PC-004	BASE FRAME ADAPTOR	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
11	PC-011	SILL BASE FRAME (FIXED/OPERABLE)	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
14	PC-014	VERTICAL BASE FRAME (OPERABLE)	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
16	PC-016	GLASS STOP	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
18	PC-018	ALTERNATE STRAP ANCHOR	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
19	PC-019	STRAP ANCHOR	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
20	PC-020	STRAP ANCHOR COVER	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
21	PC-021	CONCEALED MULLION	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
22	PC-022	REINFORCEMENT CLIP	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
53	PC-023	CONCEALED STRAP ANCHOR	ALUMINUM 6063-T6	NR ARCHITECTURAL PRODUCTS
34		9/16" LAMINATED IMPACT GLASS	GLASS	DUPONT
36	NR-A24	VK2526 1/4" PVC SPACER	PVC	CAPITAL TAPE
37		GLAZING SEALANT DOW 983 II PART	SILICONE	DOV CORNING
38		GLAZING SEALANT DOW 995	SILICONE	DOV CORNING
39	NR-G20	PS 1126E PDLY-WEDGE GASKET	70 DURO EPDM	TREMCO
40	NR-G21	EXT. WEATHERSEAL AP 150	EXTRUDED TAPE	SCHLEGEL
41	NR-G22	INT, WEATHERSEAL TLOK 150	POLYETHELENE	SCHLEGEL
43	NR-G25	GLASS SETTING BLOCK TR-1365E	70 DURO EPDM	TREMCO
44		PERIMETER SEALANT DOW 795	SILICONE	DOW CORNING
45	<u>-</u> ,	FRAME JOINT SEALANT	SILICONE	CRL BUILDING PRODUCTS
46	NR-F12	BASE FRAME FIXING SCREVS	STAINLESS STEEL	#10X1 PPH TSEK SCREW
47	NR-F13	ADAPTOR FIXING SCREW	STAINLESS STEEL	#12 X 3/4" PP TEK SREV
48	NR-EP1	1/16'-2-1/2"X5/16" END PLATE	6063-T6 ALUMINUM	NR ARCHITECTURAL PRODUCTS



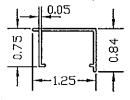




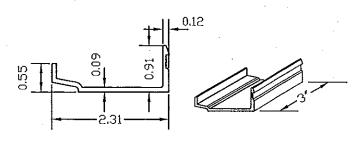




19- PC-019 - 3" LONG STRAP WITH COVER



20- PC-020 STRAP COVER



23- PC-023 CONCEALED ANCHOR SHIM PLATE 3' LONG

PRODUCT REVISED as complying with the Florida Building Code Acceptance No 12.

Mismi Dade Product Control

YIPING WANG, P.E. FLORIDA REGISTRATION PE #55983 C.A.N. 28677

0.09

SCALE DRAWN

S.L PROJECT 12-026 DRAVING NO. AD12-05

DATE

NRAP SERIES 2500 FIXED WINDOW (L.I NR ARCHITECTURAL PRODUCTS

MCY ENGINEERING, INC. GLAZING CONSULTANTS

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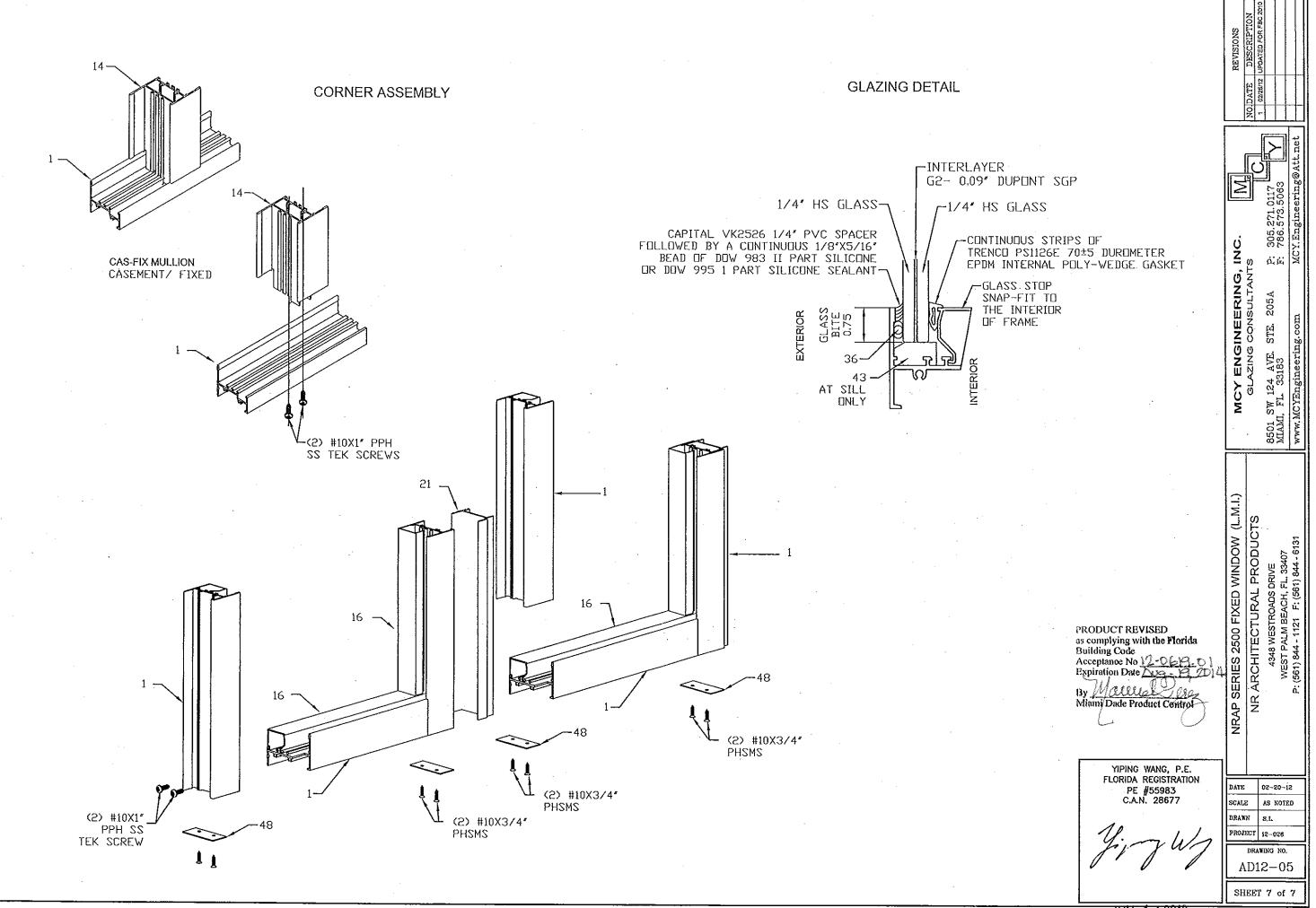
SHEET 6 of 7

02-20-13

AS NOTED

JUN 1 & ZOIZ

0.55	0.12	
-	5.4	
•	18- PC-018 - 3' LONG ALTERNATE STRAP ANCHOR	



JUN 142012